Pending Claims

- 1. An isolated and purified ced-3 nucleic acid comprising a nucleic acid which encodes the amino acid sequence of SEQ ID NO: 19.
- 3. The isolated and purified ced-3 nucleic acid of claim 1, comprising the sequence of SEQ ID NO: 18.
 - 4. An isolated RNA encoded by the nucleic acid of claim 1.
- 70. An isolated and purified ced-3 nucleic acid comprising a mutation in SEQ ID NO:18, wherein said mutation in ced-3 is selected from the group consisting of:
 - a) n1040;
 - b) n718;
 - c) n2433;
 - d) n1164;
 - e) n717;
 - f) n1949;
 - g) n1286;
 - h) n1125;
 - i) n1165;
 - j) n2430;
 - k) n2426; and

- 71. An isolated and purified ced-3 nucleic acid comprising a mutation in SEQ ID NO:18, wherein said mutation is selected from the group consisting of:
- a) a C to T at nucleotide 2310 of SEQ ID NO:18, resulting in a L to F alteration at position 27 of SEQ ID NO:19;
- b) a G to A at nucleotide 2487 of SEQ ID NO:18, resulting in a G to R alteration at position 65 of SEQ ID NO:19;
- c) a G to A at nucleotide 5757 of SEQ ID NO:18, resulting in a G to S alteration at position 360 of SEQ ID NO:19;
- d) a C to T at nucleotide 5940 of SEQ ID NO:18, resulting in a Q to termination alteration at position 403 of SEQ ID NO: 19;
- e) a C to T at nucleotide 6322 of SEQ ID NO:18, resulting in a Q to termination alteration at position 412 of SEQ ID NO:19;
- f) a G to A at nucleotide 6342 of SEQ ID NO:18, resulting in a W to termination alteration at position 428 of SEQ ID NO:19;
- g) a C to T at nucleotide 6434 of SEQ ID NO:18, resulting in a A to V alteration at position 449 of SEQ ID NO:19;
- h) a C to T at nucleotide 6485, resulting in a A to V alteration at position 466 of SEQ ID NO:19;

- j) a C to T at nucleotide 7020, resulting in an S to F alteration at position 485 of SEQ ID NO:19;
 - k) an alteration in mRNA splicing at nucleotide 6297.
- 72. An isolated and purified ced-3 nucleic acid comprising a mutation in SEQ ID NO:18, wherein said mutation in ced-3 is selected from the group consisting of:
 - a) C to T at nucleotide 2310 of SEQ ID NO: 18;
 - b) G to A at nucleotide 2487 of SEQ ID NO: 18;
 - c) G to A at nucleotide 5757 of SEQ ID NO: 18;
 - d) C to T at nucleotide 5940 of SEQ ID NO: 18;
 - e) G to A at nucleotide 6297 of SEQ ID NO: 18;
 - f) C to T at nucleotide 6322 of SEQ ID NO: 18;
 - g) G to A at nucleotide 6342 of SEQ ID NO: 18;
 - h) C to T at nucleotide 6434 of SEQ ID NO: 18;
 - i) C to T at nucleotide 6485 of SEQ ID NO: 18;
 - j) G to A at nucleotide 6535 of SEQ ID NO: 18;
 - k) C to T at nucleotide 7020 of SEQ ID NO:18.